

WARREN COUNTY, NEW JERSEY
COMPREHENSIVE HYDRIC SOILS LIST

All mapunits are displayed regardless of hydric status and are listed in alpha-numeric order by mapunit symbol. The "Hydric Soils Criteria" columns indicate the conditions that caused the mapunit component to be classified as "Hydric" or "Non-Hydric". These criteria are defined in "Hydric Soils of the United States" (USDA Miscellaneous Publication No. 1491, June, 1991 as revised in the Federal Register, Vol. 60, No. 37, February 24, 1995). See the "Criteria for Hydric Soils" endnote to determine the meaning of these columns. Spot symbols are footnoted at the end of the table.

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
Ad: ADRIAN MUCK-----	ADRIAN (C)	Yes	Bog	1,3	YES	NO	YES	1650
AnB2: ANNANDALE GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES, ERODED-----	ANNANDALE (C)	No						2940
AnC2: ANNANDALE GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES, ERODED-----	ANNANDALE (C)	No						4869
AnD2: ANNANDALE GRAVELLY LOAM, 15 TO 25 PERCENT SLOPES, ERODE D-----	ANNANDALE (C)	No						2660
AsB: ANNANDALE VERY STONY LOAM, 3 TO 8 PERCENT SLOPES-----	ANNANDALE (C)	No						370
AsC: ANNANDALE VERY STONY LOAM, 8 TO 15 PERCENT SLOPES-----	ANNANDALE (C)	No						1060

WARREN COUNTY, NEW JERSEY
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
AsD: ANNANDALE VERY STONY LOAM, 15 TO 25 PERCENT SLOPES-----	ANNANDALE (C)	No						830
BaA: BARTLEY LOAM, 0 TO 3 PERCENT SLOPES-----	BARTLEY (C) LYONS (I)	No Yes	Depression	2B3,3	YES	NO	YES	1190
BaB: BARTLEY LOAM, 3 TO 8 PERCENT SLOPES-----	BARTLEY (C) LYONS (I)	No Yes	Depression	2B3,3	YES	NO	YES	6480
BbC: BARTLEY GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES	BARTLEY (C)	No						1900
BdB: BARTLEY STONY LOAM, 3 TO 8 PERCENT SLOPES---	BARTLEY (C)	No						310
BfB: BATH GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES---	BATH (C)	No						5441
BfC: BATH GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES--	BATH (C)	No						4440

WARREN COUNTY, NEW JERSEY
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
BfD: BATH GRAVELLY LOAM, 15 TO 25 PERCENT SLOPES--	BATH (C)	No						1850
BfE: BATH GRAVELLY LOAM, 25 TO 40 PERCENT SLOPES--	BATH (C)	No						550
BgB: BATH VERY STONY LOAM, 3 TO 8 PERCENT SLOPES-	BATH (C)	No						1280
BgC: BATH VERY STONY LOAM, 8 TO 15 PERCENT SLOPES	BATH (C)	No						1070
CbB: CALIFON GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES-	CALIFON (C) COKESBURY (I)	No Yes	Depression	2B3	YES	NO	NO	3240
CbC2: CALIFON GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES, ERODED-----	CALIFON (C)	No						1720
CcB: CALIFON VERY STONY LOAM, 3 TO 8 PERCENT SLOPES-----	CALIFON (C) COKESBURY (I)	No Yes	Depression	2B3	YES	NO	NO	570

WARREN COUNTY, NEW JERSEY
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
CcC: CALIFON VERY STONY LOAM, 8 TO 15 PERCENT SLOPES-----	CALIFON (C)	No						400
Ck: CARLISLE MUCK-----	CARLISLE (C)	Yes	Bog	1,3	YES	NO	YES	3550
CmA: CHIPPEWA SILT LOAM, 0 TO 3 PERCENT SLOPES---	CHIPPEWA (C)	Yes	Steptoe	2B3	YES	NO	NO	2140
CmB: CHIPPEWA SILT LOAM, 3 TO 8 PERCENT SLOPES---	CHIPPEWA (C)	Yes	Steptoe	2B3	YES	NO	NO	610
CnA: CHIPPEWA VERY STONY SILT LOAM, 0 TO 3 PERCENT SLOPES-----	CHIPPEWA (C)	Yes	Steptoe	2B3	YES	NO	NO	930
CnB: CHIPPEWA VERY STONY SILT LOAM, 3 TO 8 PERCENT SLOPES-----	CHIPPEWA (C)	Yes	Steptoe	2B3	YES	NO	NO	730
CoA: COKESBURY LOAM, 0 TO 3 PERCENT SLOPES-----	COKESBURY (C)	Yes	Depression	2B3	YES	NO	NO	560

WARREN COUNTY, NEW JERSEY
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C) / Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
CoB: COKESBURY LOAM, 3 TO 8 PERCENT SLOPES-----	COKESBURY (C)	Yes	Depression	2B3	YES	NO	NO	920
CsB: COKESBURY VERY STONY LOAM, 3 TO 8 PERCENT SLOPES-----	COKESBURY (C)	Yes	Depression	2B3	YES	NO	NO	1080
EPD: EDNEYVILLE-PARKER-ROCK OUTCROP ASSOCIATION, STEEP-----	EDNEYVILLE(C) PARKER (C) ROCK OUTCROP (C)	No No No						5215 1490 745
EdB: EDNEYVILLE GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES-----	EDNEYVILLE(C)	No						4960
EdC: EDNEYVILLE GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES-----	EDNEYVILLE(C)	No						2990
EeB: EDNEYVILLE EXTREMELY STONY LOAM, 3 TO 8 PERCENT SLOPES-----	EDNEYVILLE(C)	No						2460

WARREN COUNTY, NEW JERSEY
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
EeC: EDNEYVILLE EXTREMELY STONY LOAM, 8 TO 15 PERCENT SLOPES-----	EDNEYVILLE(C)	No						4460
FrA: FREDON LOAM, 0 TO 3 PERCENT SLOPES-----	FREDON (C)	Yes	Steptoe	2B3	YES	NO	NO	2050
Ha: HALSEY LOAM-----	HALSEY (C)	Yes	Depression	2B3	YES	NO	NO	1540
HbA: HAZEN LOAM, 0 TO 3 PERCENT SLOPES-----	HAZEN (C)	No						1320
HbB: HAZEN LOAM, 3 TO 8 PERCENT SLOPES-----	HAZEN (C)	No						270
HbC: HAZEN LOAM, 8 TO 15 PERCENT SLOPES-----	HAZEN (C)	No						470
HcB: HAZEN COBBLY LOAM, 3 TO 8 PERCENT SLOPES---	HAZEN (C)	No						870
HfA: HAZEN GRAVELLY LOAM, 0 TO 3 PERCENT SLOPES---	HAZEN (C)	No						3970

WARREN COUNTY, NEW JERSEY
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
HfB: HAZEN GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES---	HAZEN (C)	No						4310
HfC: HAZEN GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES--	HAZEN (C)	No						4040
HfD: HAZEN GRAVELLY LOAM, 15 TO 25 PERCENT SLOPES-----	HAZEN (C)	No						730
HfE: HAZEN GRAVELLY LOAM, 25 TO 40 PERCENT SLOPES-----	HAZEN (C)	No						360
HkA: HERO LOAM, 0 TO 3 PERCENT SLOPES-----	HERO (C)	No						810
	FREDON (I)	Yes	Depression	2B3	YES	NO	NO	
	HALSEY (I)	Yes	Depression	2B3	YES	NO	NO	
HkB: HERO LOAM, 3 TO 8 PERCENT SLOPES-----	HERO (C)	No						1000
HrA: HERO GRAVELLY LOAM, 0 TO 3 PERCENT SLOPES---	HERO (C)	No						770
	FREDON (I)	Yes	Depression	2B3	YES	NO	NO	
	HALSEY (I)	Yes	Depression	2B3	YES	NO	NO	

WARREN COUNTY, NEW JERSEY
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
HrB: HERO GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES---	HERO (C)	No						1300
LyA: LYONS SILT LOAM, 0 TO 4 PERCENT SLOPES-----	LYONS (C)	Yes	Depression	2B3,3	YES	NO	YES	1440
LzB: LYONS VERY STONY SILT LOAM, 3 TO 8 PERCENT SLOPES-----	LYONS (C)	Yes	Depression	2B3,3	YES	NO	YES	460
MD: MINE DUMP-----	MINE DUMP (C)	No						340
Md: MIDDLEBURY LOAM-----	MIDDLEBURY (C) WAYLAND (I)	No Yes	Depression	2B3	YES	NO	NO	1580
NFD: NASSAU-ROCK OUTCROP COMPLEX, 15 TO 25 PERCENT SLOPES-----	NASSAU (C) ROCK OUTCROP (C)	No No						5175 575
NFE: NASSAU-ROCK OUTCROP COMPLEX, 25 TO 45 PERCENT SLOPES-----	NASSAU (C) ROCK OUTCROP (C)	No No						2355 785

WARREN COUNTY, NEW JERSEY
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
NaC: NASSAU ROCKY SILT LOAM, 8 TO 15 PERCENT SLOPES-----	NASSAU (C)	No						4890
NbB: NASSAU SHALY SILT LOAM, 3 TO 8 PERCENT SLOPES-----	NASSAU (C)	No						2740
ORD: OQUAGA-SWARTSWOOD-ROCK OUTCROP ASSOCIATION, STEEP-----	OQUAGA (C)	No						468
	SWARTSWOOD(C)	No						180
	ROCK OUTCROP (C)	No						72
PaA: PALMYRA GRAVELLY FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES-----	PALMYRA (C)	No						420
PaB: PALMYRA GRAVELLY FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES-----	PALMYRA (C)	No						530
PbD: PARKER GRAVELLY SANDY LOAM, 15 TO 25 PERCENT SLOPES-----	PARKER (C)	No						1530

WARREN COUNTY, NEW JERSEY
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
PbE: PARKER GRAVELLY SANDY LOAM, 25 TO 40 PERCENT SLOPES-----	PARKER (C)	No						1090
Pc: PITS, MUCK-----	PITS, MUCK(C)	Yes	Bog	1,3	YES	NO	YES	580
Pd: PITS, SAND AND GRAVEL-	PITS, SAND AND GRAVE (C)	No						380
PnA: POPE FINE SANDY LOAM, HIGH BOTTOM, 0 TO 3 PERCENT SLOPE S-----	POPE (C)	No						2040
PnB: POPE FINE SANDY LOAM, HIGH BOTTOM, 3 TO 8 PERCENT SLOPE S-----	POPE (C)	No						1060
PoA: POPE GRAVELLY FINE SANDY LOAM, HIGH BOTTOM, 0 TO 3 PERC ENT SLOPES-----	POPE (C)	No						810
PoB: POPE GRAVELLY FINE SANDY LOAM, HIGH BOTTOM, 3 TO 8 PERC ENT SLOPES-----	POPE (C)	No						3050

WARREN COUNTY, NEW JERSEY
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C) / Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
QU: QUARRY-----	QUARRY (C)	No						110
ROF: ROCK OUTCROP-OQUAGA ASSOCIATION, VERY STEEP-----	ROCK OUTCROP (C) OQUAGA (C)	No No						2553 4347
RPF: ROCK OUTCROP-PARKER-EDNEYVI LLE ASSOCIATION, VERY STEEP-----	ROCK OUTCROP (C) PARKER (C) EDNEYVILLE (C)	No No No						2520 8190 1890
RRE: ROCK OUTCROP-ROCKAWAY-PARKE R ASSOCIATION, VERY STEEP-----	ROCK OUTCROP (C) ROCKAWAY (C) PARKER (C)	No No No						216 288 216
RWD: ROCK OUTCROP-WASSAIC COMPLEX, 15 TO 25 PERCENT SLOPES-----	ROCK OUTCROP (C) WASSAIC (C)	No No						586 1584

WARREN COUNTY, NEW JERSEY
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C) / Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
RWF: ROCK OUTCROP-WASSAIC COMPLEX, 25 TO 45 PERCENT SLOPES-----	ROCK OUTCROP (C) WASSAIC (C)	No No						1100 2449
RcD: ROCKAWAY VERY STONY LOAM, 8 TO 25 PERCENT SLOPES-----	ROCKAWAY (C)	No						920
StC: STEINSBURG FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES-----	STEINSBURG(C)	No						870
SuB: SWARTSWOOD GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES-----	SWARTSWOOD(C)	No						480
SvB: SWARTSWOOD VERY STONY LOAM, 3 TO 8 PERCENT SLOPES-----	SWARTSWOOD(C)	No						2620
SvC: SWARTSWOOD VERY STONY LOAM, 8 TO 15 PERCENT SLOPES-----	SWARTSWOOD(C)	No						2220

WARREN COUNTY, NEW JERSEY
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
SvD: SWARTSWOOD VERY STONY LOAM, 15 TO 25 PERCENT SLOPES-----	SWARTSWOOD(C)	No						2230
SxC: SWARTSWOOD-OQUAGA EXTREMELY STONY LOAMS, 8 TO 15 PERCENT SLOPES-----	SWARTSWOOD(C) OQUAGA (C)	No No						1531 939
VeA: VENANGO SILT LOAM, 0 TO 3 PERCENT SLOPES---	VENANGO (C) CHIPPEWA (I)	No Yes	Depression	2B3	YES	NO	NO	280
VnB: VENANGO GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES-	VENANGO (C)	No						1360
VnC: VENANGO GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES	VENANGO (C)	No						390
VsB: VENANGO VERY STONY LOAM, 3 TO 8 PERCENT SLOPES-----	VENANGO (C) CHIPPEWA (I)	No Yes	Depression	2B3	YES	NO	NO	520

WARREN COUNTY, NEW JERSEY
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
W: WATER (LESS THAN 40 ACRES)-----								
	ERROR: There is no hydcomp record for component			NJ041	041W	1		
WATER: WATER (GREATER THAN 40 ACRES)-----								
	ERROR: There is no hydcomp record for component			NJ041	041WATER	1		
WOB: WASSAIC-ROCK OUTCROP COMPLEX, 3 TO 8 PERCENT SLOPES-----								
	WASSAIC (C)	No						1050
	ROCK (C)	No						350
WOC: WASSAIC-ROCK OUTCROP COMPLEX, 8 TO 15 PERCENT SLOPES-----								
	WASSAIC (C)	No						2174
	ROCK (C)	No						846
WOD: WASSAIC-ROCK OUTCROP COMPLEX, 15 TO 25 PERCENT SLOPES-----								
	WASSAIC (C)	No						763
	ROCK (C)	No						297
WaA: WASHINGTON LOAM, 0 TO 3 PERCENT SLOPES-----								
	WASHINGTON(C)	No						2850

WARREN COUNTY, NEW JERSEY
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
WaB: WASHINGTON LOAM, 3 TO 8 PERCENT SLOPES-----	WASHINGTON(C)	No						22440
WaC2: WASHINGTON LOAM, 8 TO 15 PERCENT SLOPES, ERODED-----	WASHINGTON(C)	No						4910
WaD2: WASHINGTON LOAM, 15 TO 25 PERCENT SLOPES, ERODED-----	WASHINGTON(C)	No						1630
WgB: WASHINGTON GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES-----	WASHINGTON(C)	No						760
WgC: WASHINGTON GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES-----	WASHINGTON(C)	No						1400
WgD: WASHINGTON GRAVELLY LOAM, 15 TO 25 PERCENT SLOPES-----	WASHINGTON(C)	No						1260
WkB: WASHINGTON VERY STONY LOAM, 3 TO 8 PERCENT SLOPES-----	WASHINGTON(C)	No						490

WARREN COUNTY, NEW JERSEY
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C) / Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
WkC: WASHINGTON VERY STONY LOAM, 8 TO 15 PERCENT SLOPES-----	WASHINGTON(C)	No						950
WkD: WASHINGTON VERY STONY LOAM, 15 TO 25 PERCENT SLOPES-----	WASHINGTON(C)	No						500
WkE: WASHINGTON VERY STONY LOAM, 25 TO 40 PERCENT SLOPES-----	WASHINGTON(C)	No						920
WmA: WASSAIC GRAVELLY LOAM, 0 TO 3 PERCENT SLOPES-	WASSAIC (C)	No						480
WmB: WASSAIC GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES-	WASSAIC (C)	No						960
WnC: WASSAIC ROCKY GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES-----	WASSAIC (C)	No						1260
WnD: WASSAIC ROCKY GRAVELLY LOAM, 15 TO 25 PERCENT SLOPES-----	WASSAIC (C)	No						470

WARREN COUNTY, NEW JERSEY
COMPREHENSIVE HYDRIC SOILS LIST (Continued)

Map Symbol Mapunit Name	Component(C)/ Inclusion(I)	Hydric	Local Landform	Hydric Soils Criteria				Acres
				Hydric Criteria Code	Meets Saturation Criteria	Meets Flooding Criteria	Meets Ponding Criteria	
Wp: WAYLAND SILT LOAM-----	WAYLAND (C)	Yes	Flood Plain	2B3	YES	NO	NO	4100
WvB: WURTSBORO EXTREMELY STONY LOAM, 3 TO 8 PERCENT SLOPES-----	WURTSBORO (C) CHIPPEWA (I)	No Yes	Depression	2B3	YES	NO	NO	2560
WvC: WURTSBORO EXTREMELY STONY LOAM, 8 TO 15 PERCENT SLOPES-----	WURTSBORO (C)	No						430

FOOTNOTE: There may be small areas of included soils or miscellaneous areas that are significant to use and management of the soil; yet are too small to delineate on the soil map at the map's original scale. These may be designated as spot symbols and are defined in the published Soil Survey Report or the USDA-NRCS Technical Guide, Part II.

HYDRIC SOILS CRITERIA CODES AND DEFINITIONS

1. All Histosols, except Folists, or
 2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Aquisalids, Pachic subgroups, or Cumulic subgroups that are:
 - a. Somewhat poorly drained with a water table equal to 0.0 foot (ft) from the surface during the growing season, or
 - b. Poorly drained or very poorly drained and have either:
 - (1) water table equal to 0.0 ft during the growing season if textures are coarse sand, sand, or fine sand in all layers within 20 inches (in), or for other soils
 - (2) water table at less than or equal to 0.5 ft from the surface during the growing season if permeability is equal to or greater than 6.0 in/hour (h) in all layers within 20 in, or
 - (3) water table at less than or equal to 1.0 ft from the surface during the growing season if permeability is less than 6.0 in/h in any layer within 20 in, or
 3. Soils that are frequently ponded for long duration or very long duration during the growing season, or
 4. Soils that are frequently flooded for long duration or very long duration during the growing season.
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